

1 Abstract

This study tenders survey laboratory procedures for the establishment of *Salmonella* in biological material. The work deals with the general characteristics of the genus *Salmonella*, pathogenesis, symptoms of the disease and treatment. Here are described different culture media, which are reflected in the typical growth of *Salmonella*. *Salmonella* is the second most common bacteria causing gastrointestinal disease.

It also shows numbers of infected people and the most common serotypes in the Zlín region (2000 - 2012). Another records of *Salmonella* detection in Czech Republic are matched with the neighboring countries for the period (2000 - 2012). Graphs provide clear occurrence of *Salmonella* in the Czech Republic and neighboring countries.